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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,564	07/17/2003	Michael Beauerle	R 303356	9256
7590 09/23/2004			EXAMINER	
Walter Ottesen			HOANG, JOHNNY H	
Patent Attorney P.O. Box 4026			ART UNIT	PAPER NUMBER
	ID 20885-4026		3747	

DATE MAILED: 09/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)	11111
	10/620,564	BEAUERLE ET AL	V - C
Office Action Summary	Examiner	Art Unit	
	Johnny H. Hoang	3747	
The MAILING DATE of this communication ap			dress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		a reply be timely filed hirty (30) days will be considered timely DNTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133).	<i>f.</i> ommunication.
Status			
1) Responsive to communication(s) filed on 17.	Julv 2003.		
/ 	is action is non-final.		
3) Since this application is in condition for allowated closed in accordance with the practice under			merits is
Disposition of Claims			
4) Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examination 10) The drawing(s) filed on 17 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11. The oath or declaration is objected to by the E	ı)⊠ accepted or b)⊡ obje e drawing(s) be held in abey ction is required if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CF	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No en received in this National	Stage
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		v Summary (PTO-413) o(s)/Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06) Paper No(s)/Mail Date 	-, [,	f Informal Patent Application (PTC	O-152)

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DETAILED ACTION

Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, 9-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Mufford et al (US 5,771,476).

Regarding claim 1, the reference of Mufford et al discloses the air supply system, which includes the following subject matters:

modeling an air mass flow in said air supply system in dependence upon an rpm of said compressor and a pressure ratio of said compressor to obtain a modeled air mass flow (col. 4, line 59 through col. 5, line 10; col. 5, line 43 through col. 6, line 45; and col. 8, lines 41-50); and

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comparing said modeled air mass flow to a measured air mass flow measured by said air-mass measuring device (col. 5, lines 19-42; and col. 7, lines 37-52).

Regarding claims 2, and 9-12, as above discussions.

Regarding claim 13, as above discussions.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mufford et al.

Regarding claim 3, the reference of Mufford et al discloses the claimed invention. Furthermore, the reference of Mufford et al discloses the measuring and comparing the pressure in the air supply system (as above discussions).

However, the reference of Mufford et al does not disclose the step of measuring the pressure ratio when a bypass to at least one cylinder in open.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to have utilized the engine being operating with the at least one cylinder is open, since more information can be processed more precisely at a higher technology facility.

Regarding claim 4, as discussed in claim 3, the air supply of the engine must be including the exhaust gas recirculation valve (see fig. 6).

Regarding claim 5, the reference of Mufford et al further discloses an air control valve 700 (see fig. 6).

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Regarding claims 6-8, as above discussions.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 6.

disclosure. The copies of U.S Patent are provided.

Karisson et al (US 6,041,593).

Any inquiry concerning this communication or earlier communications from the examiner 7.

should be directed to Johnny H. Hoang whose telephone number is (703) 308-2782. The

examiner can normally be reached on Monday - Thursday (7:00Am-5: 30Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (703) 308-1946. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHH

September 21, 2004

Johnny H. Hoang Examiner Art Unit 3747

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Wille R Welf D Willis R. Wolfe **Primary Examiner**

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